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WPI Acc No: 1999-070789/199906

Electronic label with integrated circuit and associated memory for labelling goods - includes sensors detecting physical parameters of environment and changing status of memory which can be read externally by communication with aerial

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Number of Countries: 022 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9858238	A1	19981223	WO 98FR1245	A	19980615	199906 B
FR 2764977	A1	19981224	FR 977876	A	19970618	199907
EP 988511	A1	20000329	EP 98932200	A	19980615	200020
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CN 1260872	A	20000719	CN 98806332	A	19980615	200055
US 20020047781	A1	20020425	WO 98FR1245	A	19980615	200233
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Priority Applications (No Type Date): FR 977876 A 19970618

Abstract (Basic): WO 9858238 A

The electronic label (1) comprises an integrated circuit (10) with provision to communicate with the external environment. This may comprise an aerial coil (11) and rectifier circuit (12) to provide a direct voltage (Vcc), a wired central logic unit (13) or a microprocessor, and a memory (14), such as an EEPROM connected by a bus (15) to the logic unit (13). The unit (13) demodulates the voltage produced by the aerial coil in order to receive data from the outside.

A sensor (20) is connected to the integrated circuit to monitor a physical parameter, such as temperature or radiation, and pass this information to the circuit. The state of the memory within the device is modified if the monitored parameter changes beyond a preset threshold, even in the absence of an electrical power supply.

ADVANTAGE - System monitors continuously state of goods to which is it attached, esp. for detecting failure of cold storage of perishable foodstuffs.

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